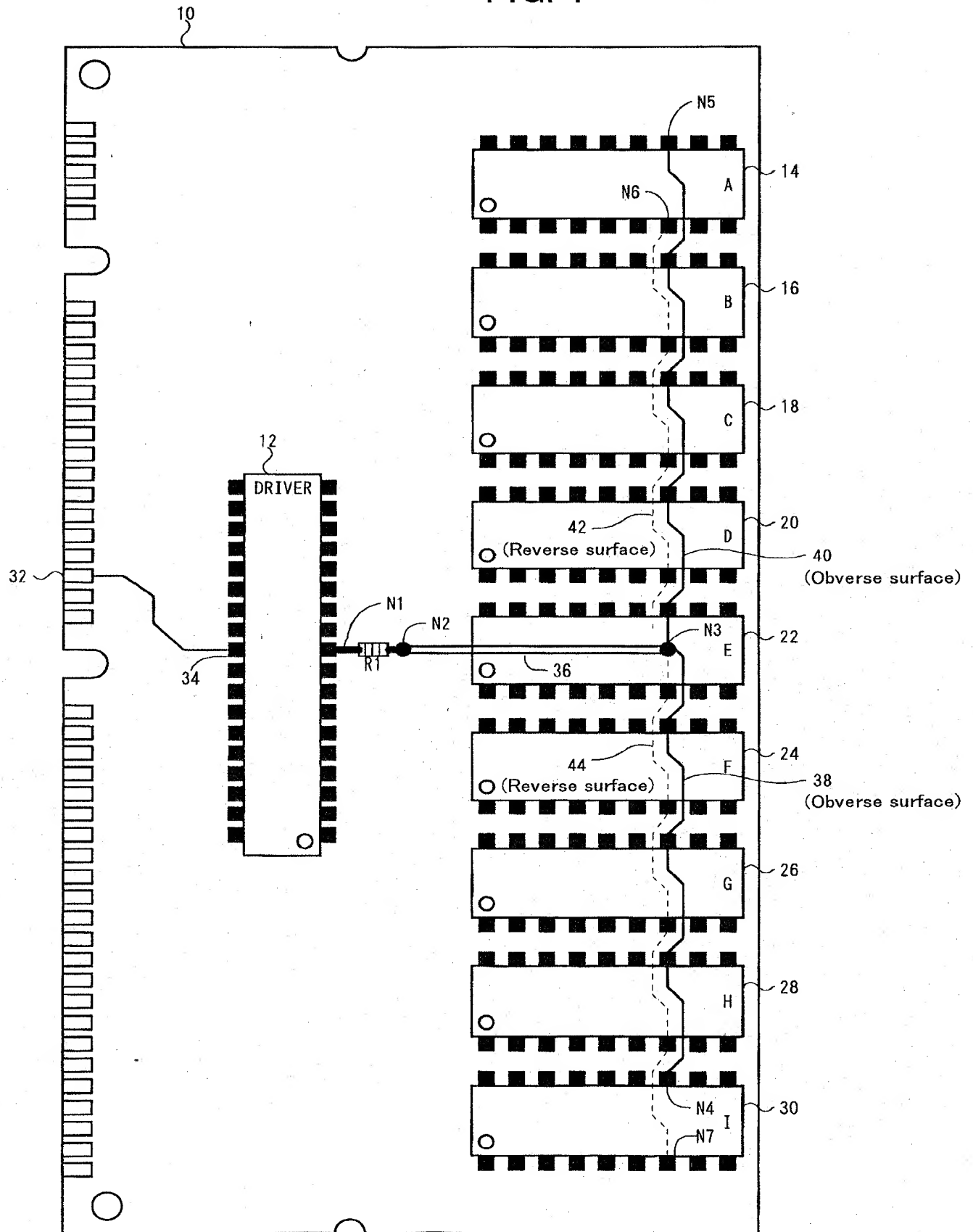


FIG. 1



85220-1102160

FIG. 2

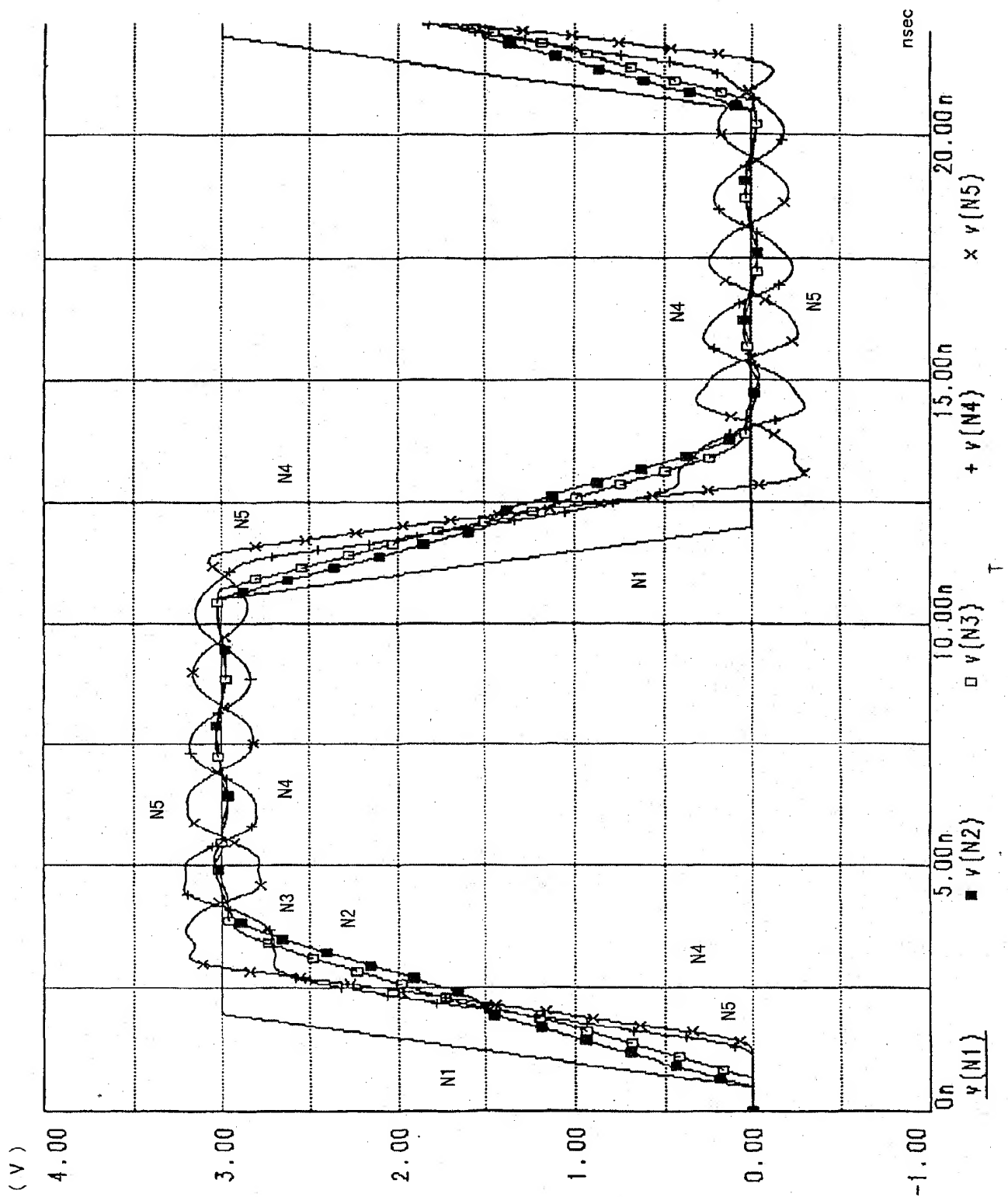


FIG. 3

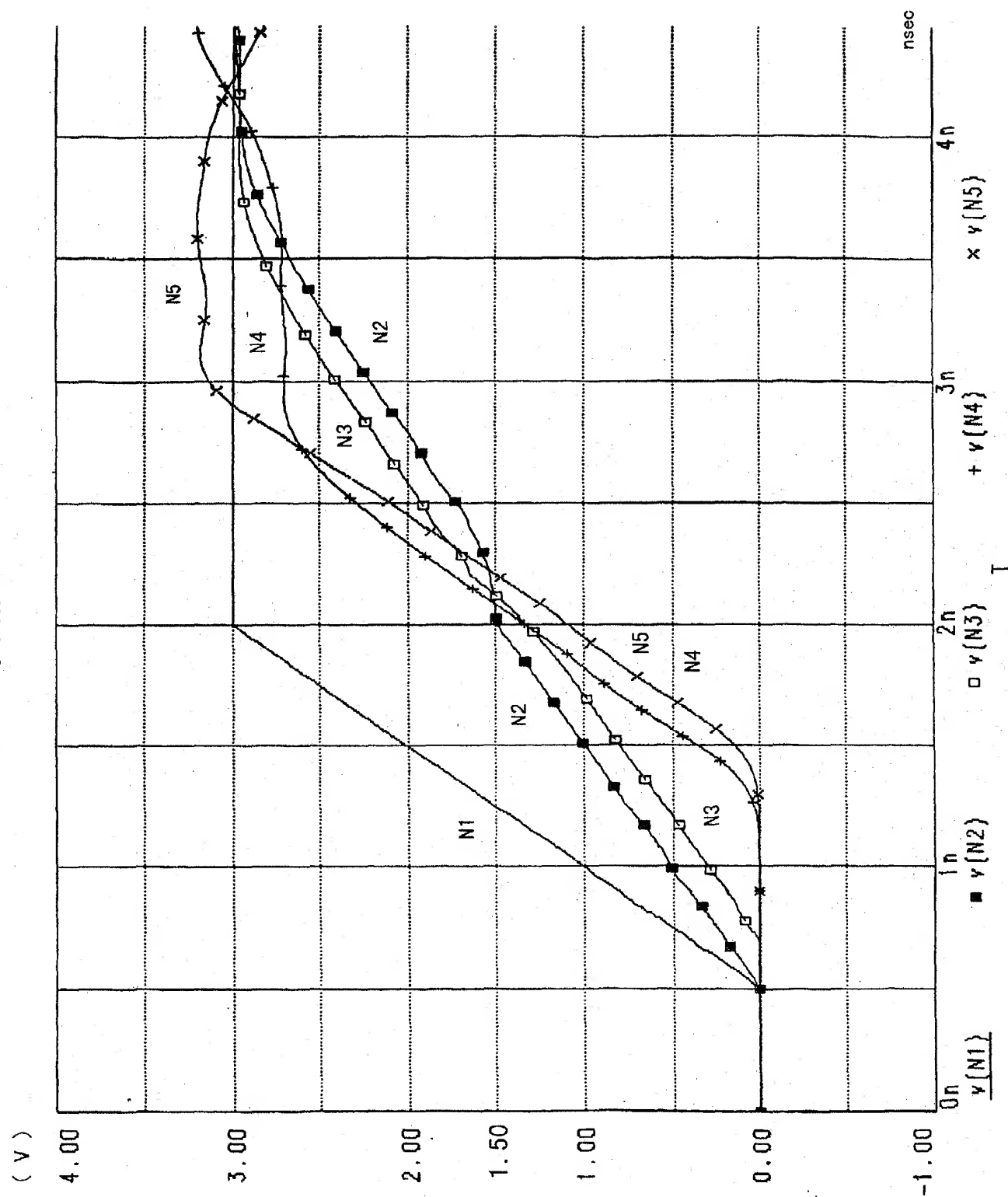


FIG. 4
FIRST EMBODIMENT

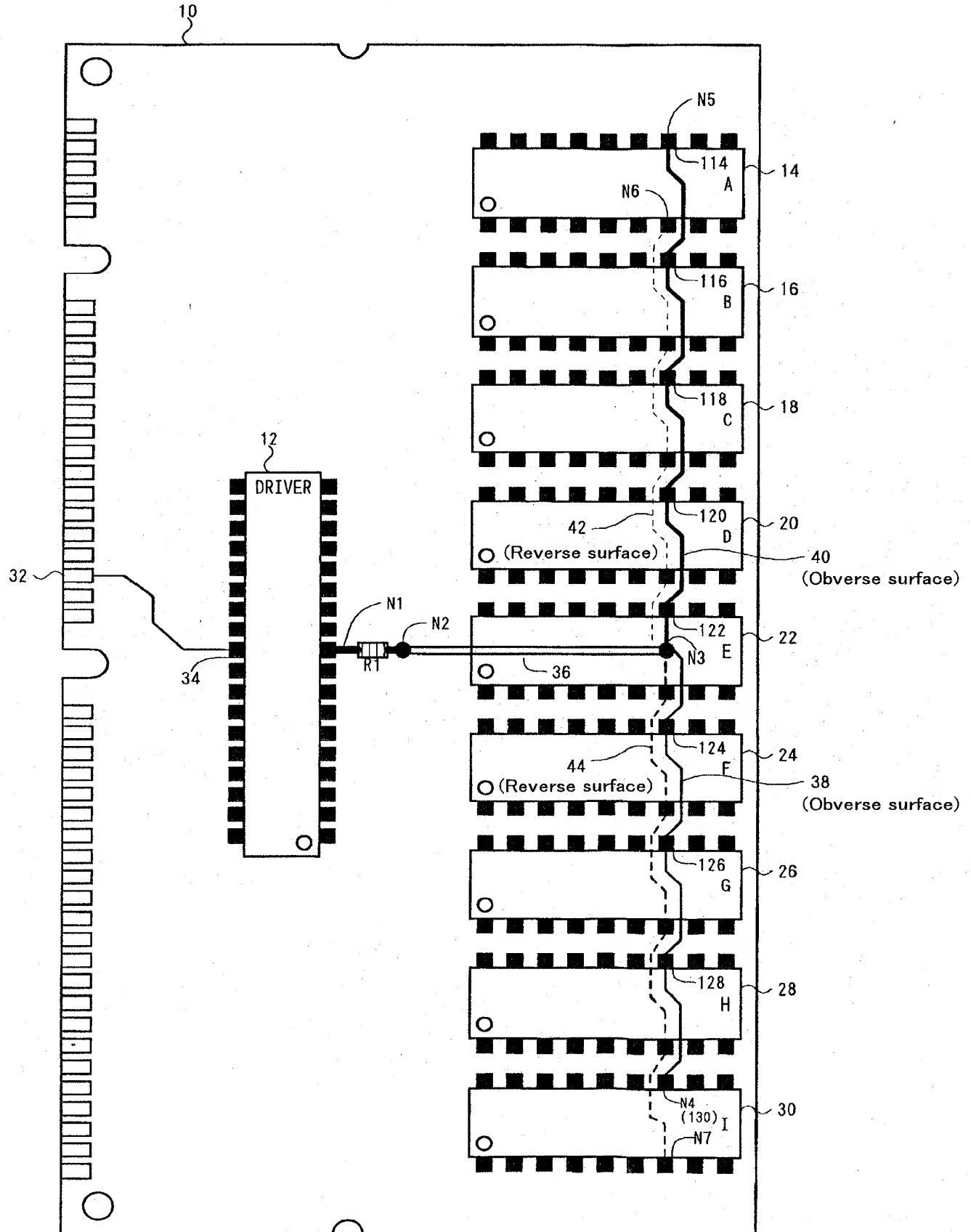
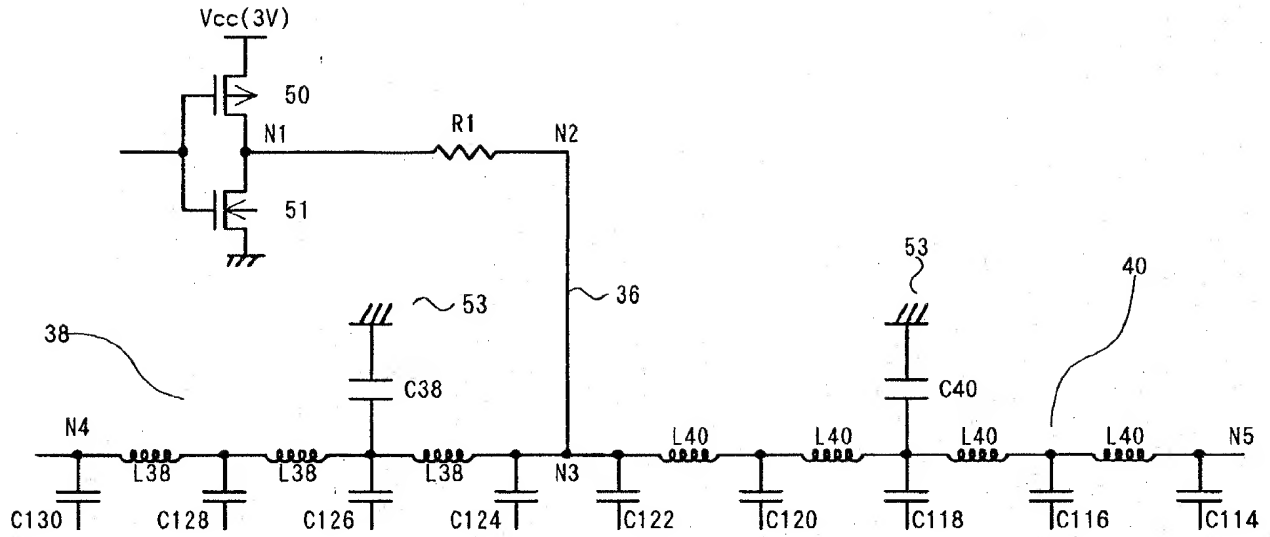


FIG. 5



$$T_d = \sqrt{L_o(C_o + C_d)}$$

$$Z_o = \sqrt{\frac{L_o}{C_o + C_d}}$$

$$\begin{aligned} C_o &= C_{38} \text{ or } C_{40} \\ C_d &= C_{124} + C_{126} + C_{128} + C_{130} \\ &\text{or} \\ &= C_{114} + C_{116} + C_{118} + C_{120} + C_{122} \end{aligned}$$

FIG. 6

SIGNAL TRANSMISSION PERIOD TO WIDTHS
FOR BRANCHED SIGNAL LINES

Width of branched signal line	Cd PF/m	Co PF/m	Lo nH/m	Zo Ω	Td ns/m	Td1 ns/m
0.05mm	250	71	520	85.6	6.08	12.92
0.10mm	250	82	450	74.1	6.07	12.22
0.20mm	250	109	356	57.1	6.23	11.31
0.40mm	250	159	263	40.7	6.47	10.37
0.80mm	250	252	173	26.2	6.60	9.32

09120117 02298

862220 41102160

FIG. 7

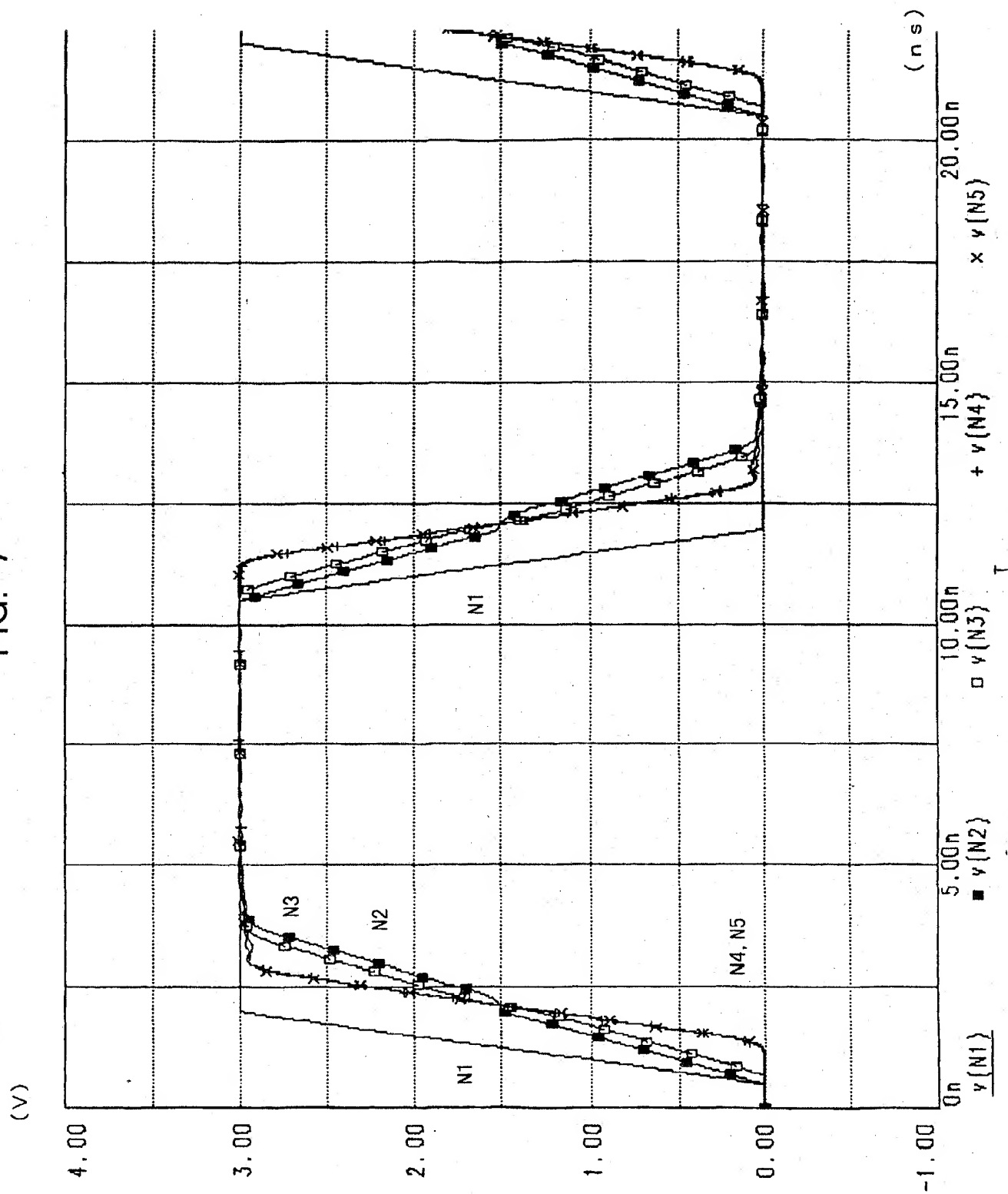


FIG. 8

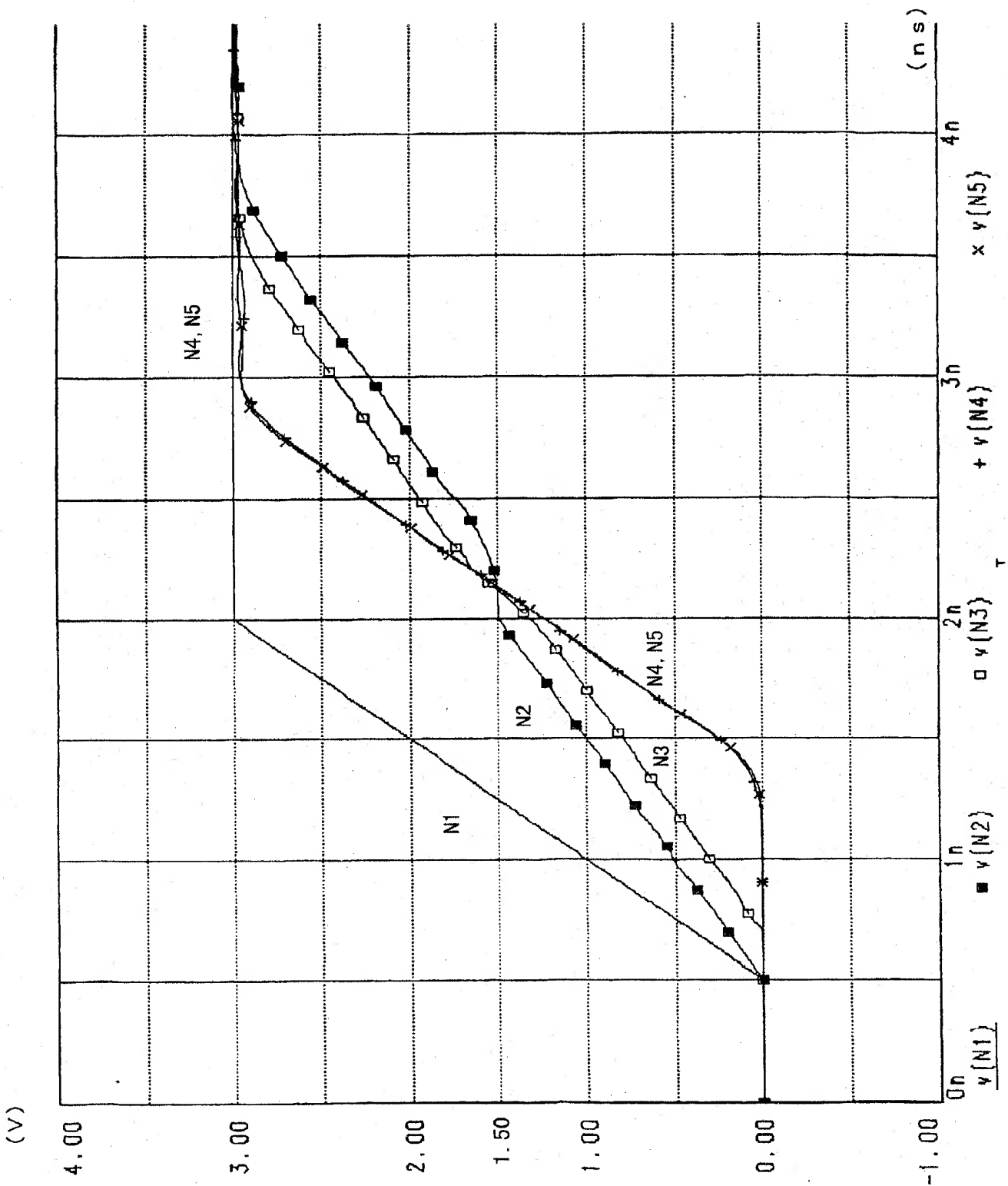


FIG. 9

SECOND EMBODIMENT

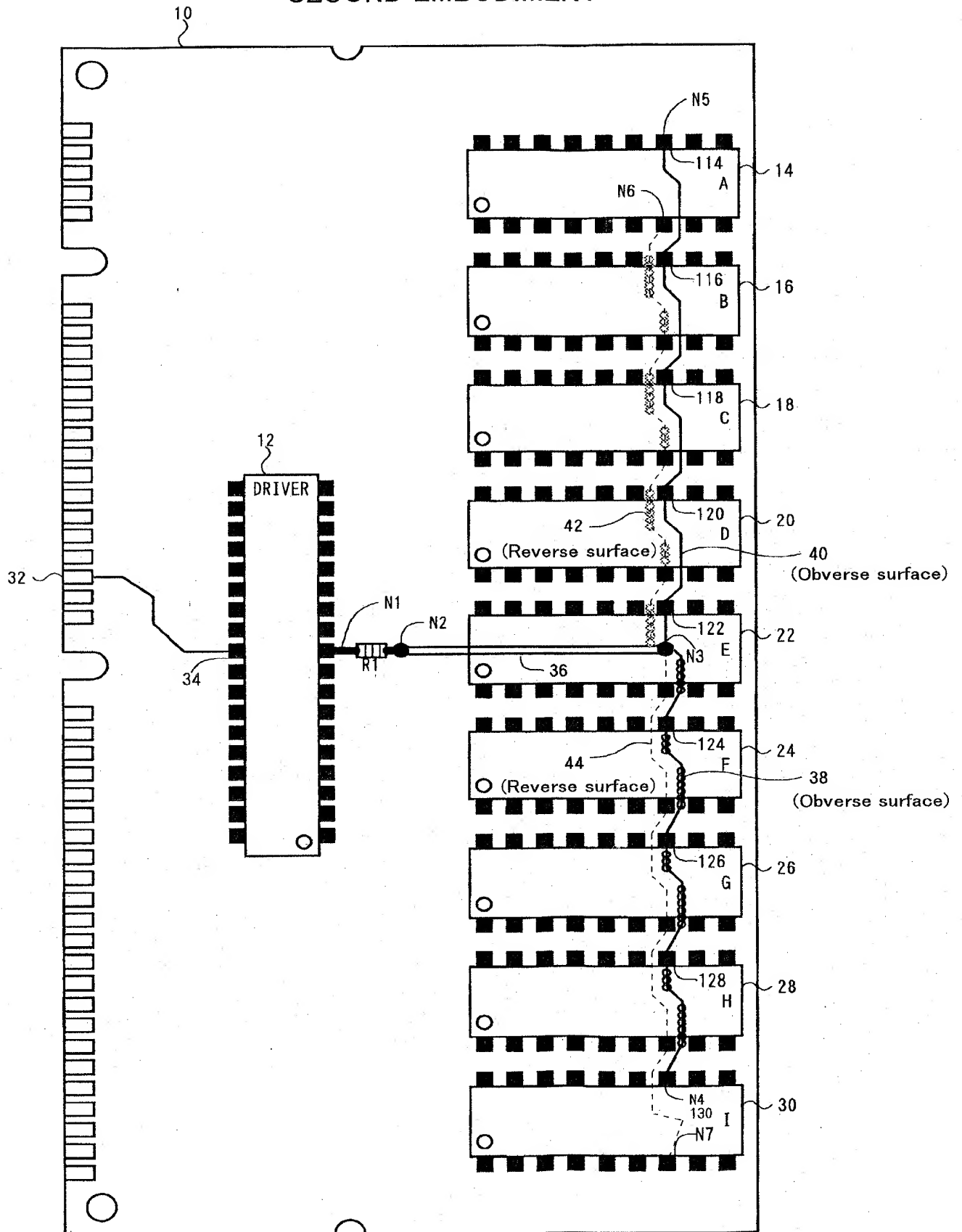


FIG. 10

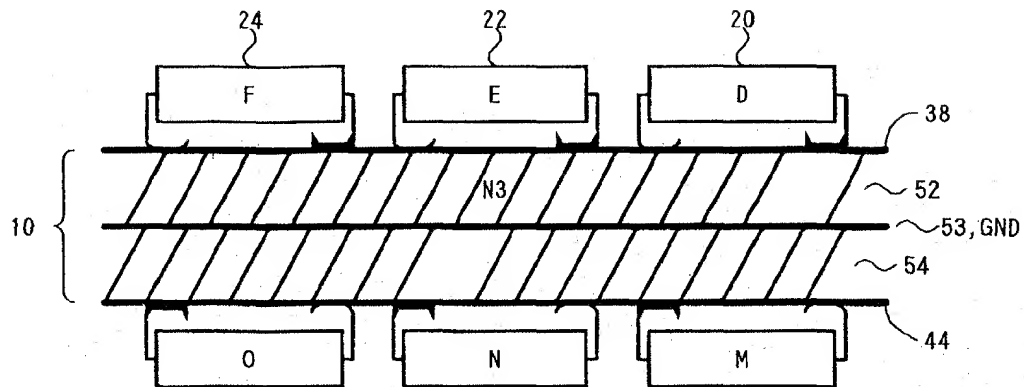
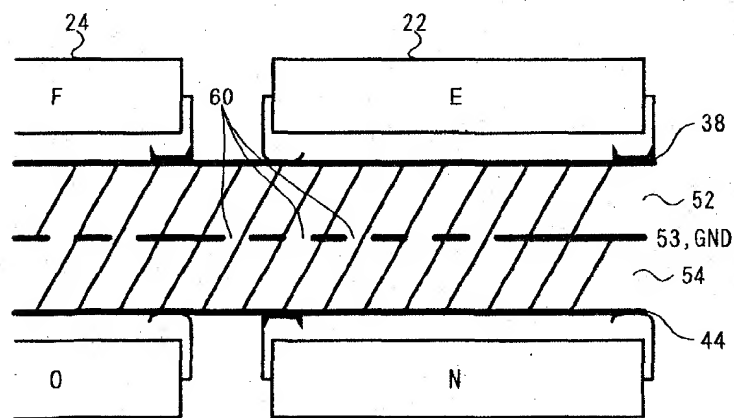


FIG. 11



862220.072298

09120117.072298

FIG. 12

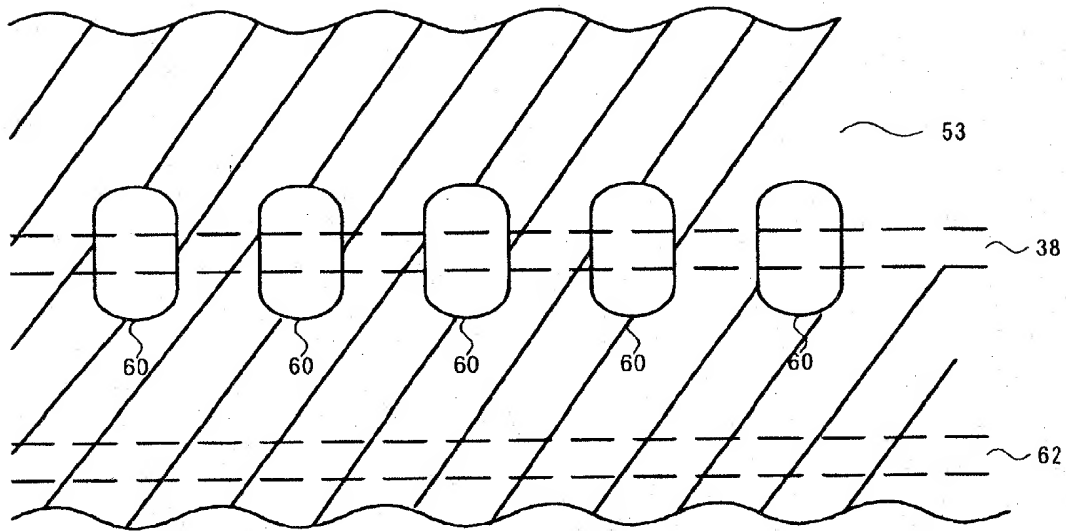
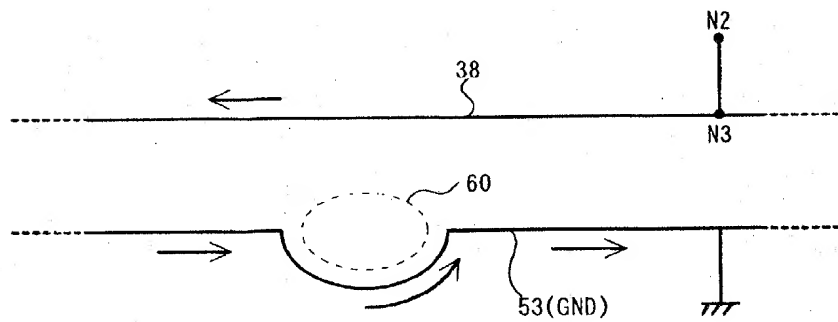


FIG. 13



FOURTH EMBODIMENT

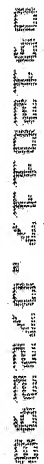


FIG. 15

EQUIVALENT CIRCUIT FOR SIGNAL LINES

